

CLAIMS

1. A polypropylene-based resin composition comprising:
0.5 to 10% by weight of a propylene-based polymer component
5 (A1) obtained by polymerizing a monomer mainly composed of propylene, having an intrinsic viscosity $[\eta]^{A1}$ measured in tetralin at 135°C of 5 dl/g or more and a melting peak temperature T_m^{A1} measured by a differential scanning calorimeter of 130 to 160°C; and
10 90 to 99.5% by weight of a propylene-based polymer component (A2) obtained by polymerizing a monomer mainly composed of propylene, having an intrinsic viscosity $[\eta]^{A2}$ measured in tetralin at 135°C of less than 5 dl/g, wherein the total amount of (A1) and (A2) is 100% by weight.
- 15 2. The polypropylene-based resin composition according to Claim 1, wherein the propylene-based polymer component (A2) comprises 50 to 94.5% by weight of a propylene polymer component (B) having an intrinsic viscosity $[\eta]^B$ measured in tetralin at 135°C of 1.5 dl/g or less, and 5 to 40% by weight of a
20 propylene-ethylene random copolymer component (C) having an intrinsic viscosity $[\eta]^C$ measured in tetralin at 135°C of 8 dl/g or less and an ethylene content of 20 to 70% by weight, wherein the total amount of (A1), (B) and (C) is 100% by weight.
- 25 3. The polypropylene-based resin composition according to Claim 1, wherein the propylene-based polymer component (A2) is a polypropylene-based resin (D) composed of:
the propylene polymer component (B) having an intrinsic

viscosity $[\eta]^B$, measured in tetralin at 135°C of 1.5 dl/g or less and being a propylene-ethylene block copolymer (i) or a mixture (iii) of said propylene-ethylene block copolymers (i) and propylene polymers (ii); and

- 5 the propylene-ethylene random copolymer component (C) having an intrinsic viscosity $[\eta]^C$ measured in tetralin at 135°C of 8 dl/g or less and an ethylene content of 20 to 70% by weight.

- 10 4. The polypropylene-based resin composition according to Claim 3, wherein the content of the propylene-based polymer component (A1) is from 0.52 to 9.8% by weight and the propylene-based polymer component (A2) is composed of 0.78 to 4.2% by weight of the propylene polymer component (B) and 98.7 to 86% by weight of a polypropylene-based resin (D), and wherein
15 the total amount of (A1), (B) and (D) is 100% by weight.

- 20 5. The polypropylene-based resin composition according to Claim 1, wherein the propylene-based polymer component (A1) has an intrinsic viscosity $[\eta]^{A1}$ measured in tetralin at 135°C of 6 to 9 dl/g and a melting temperature peak T_m^{A1} measured by a differential scanning calorimeter of 135 to 155°C.

6. The polypropylene-based resin composition according to Claim 1, wherein the propylene-based polymer component (A1) is a random copolymer of propylene and ethylene, having an ethylene content of 1 to 7% by weight.

- 25 7. The polypropylene-based resin composition according to Claim 2, wherein the propylene polymer component (B) has an intrinsic viscosity $[\eta]^B$, measured in tetralin at 135°C of

0.7 to 1.5 dl/g and the propylene-ethylene random copolymer component (C) has an intrinsic viscosity $[\eta]_{EP}^C$ measured in tetralin at 135°C of 1.5 to 4 dl/g.

8. The polypropylene-based resin composition according
5 to Claim 3, wherein the propylene polymer component (B) has an intrinsic viscosity $[\eta]_P^B$ measured in tetralin at 135°C of 0.7 to 1.5 dl/g and the propylene-ethylene random copolymer component (C) has an intrinsic viscosity $[\eta]_{EP}^C$ measured in tetralin at 135°C of 1.5 to 4 dl/g.

10 9. The polypropylene-based resin composition according to any of Claim 1, wherein the polypropylene-based resin composition has a melt flow rate (MFR) measured according to JIS-K-6758 of 5 to 150 g/10 minutes.

15 10. The polypropylene-based resin composition according to any of Claim 1, wherein the polypropylene-based resin composition has a molecular weight distribution Q value (Mw/Mn) measured by a gel permeation chromatography method of less than 10.

20 11. The polypropylene-based resin composition according to any of Claim 1, wherein the polypropylene-based resin composition has a die swell of 1.6 or more.

25 12. A polypropylene-based resin composition comprising 35 to 88% by weight of the polypropylene-based resin composition of Claim 1, 0 to 20% by weight of a propylene homopolymer (F), 10 to 35% by weight of an elastomer (G) and 2 to 30% by weight of an inorganic filler(H).

13. An injection molded article made of the

polypropylene-based resin composition according to any of Claims 1 to 11.

14. A process for producing the polypropylene-based resin composition of Claim 4, comprising mixing 98.7 to 86% by weight of the polypropylene-based resin(D) with 1.3 to 14% by weight of a master batch(E) comprising 40 to 70% by weight of the propylene-based polymer component (A1) and 60 to 30% by weight of the propylene polymer component (B).

15. A master batch comprising 40 to 70% by weight of a propylene-based polymer component (A1) obtained by polymerizing a monomer mainly composed of propylene, having an intrinsic viscosity $[\eta]^{A1}$ measured in tetralin at 135°C of 5 dl/g or more and a melting peak temperature T_m^{A1} measured by a differential scanning calorimeter of 130 to 160°C and 60 to 30% by weight of a propylene polymer component (B) having an intrinsic viscosity $[\eta]^B$, measured in tetralin at 135°C of 1.5 dl/g or less.